

Title (en)

A SYMBOL-LEVEL ADAPTATION METHOD FOR EQUALIZER COEFFICIENTS, MEMORY, EQUALIZER AND RECEIVER FOR IMPLEMENTING THE METHOD

Title (de)

ERFASSUNGSVERFAHREN AUF SYMBOLEBENE FÜR ENTZERRER-KOEFFIZIENTEN, SPEICHER, ENTZERRER UND EMPFÄNGER ZUR ANWENDUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ D'ADAPTATION AU NIVEAU DES SYMBOLES DE COEFFICIENTS D'ÉGALISEUR, MÉMOIRE, ÉGALISEUR ET RÉCEPTEUR POUR LA MISE EN OEUVRE DU PROCÉDÉ

Publication

**EP 1985027 A1 20081029 (EN)**

Application

**EP 07705755 A 20070131**

Priority

- IB 2007050330 W 20070131
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- EP 07705755 A 20070131

Abstract (en)

[origin: WO2007088516A1] A symbol-level adaptation method to adapt at least one coefficient of an equalizer, the method comprising the steps of: a) executing an adaptive algorithm that calculates the value of the equalizer coefficient, the adaptive algorithm having a tunable parameter that determines how close (?) the calculated coefficient value is to the optimal solution, b) modifying the value of the equalizer coefficient according to the calculated coefficient value at an intermediate instant  $t$ ? strictly between two consecutive instants  $t_{A</SUB>A</SUB>}$  and  $t_{B</SUB>B</SUB>}$ , instants  $t_{A</SUB>A</SUB>}$  and  $t_{B</SUB>B</SUB>}$  corresponding to the beginning and the end of a pilot symbol period, respectively, and c) adjusting the value of the tunable parameter according to a number  $N$  representing the number of chips yet to be received before instant  $t_{B</SUB>B</SUB>}$  or already received since instant  $t_{A</SUB>A</SUB>}$ .

IPC 8 full level

**H04B 1/707** (2006.01); **H04L 25/03** (2006.01)

CPC (source: EP KR US)

**H04B 1/7097** (2013.01 - EP US); **H04B 1/7103** (2013.01 - KR); **H04L 25/03038** (2013.01 - EP US); **H04J 13/0044** (2013.01 - EP US); **H04L 2025/0377** (2013.01 - EP US)

Citation (search report)

See references of WO 2007088516A1

Citation (examination)

US 6175588 B1 20010116 - VISOTSKY YEVGENY [US], et al

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DOCDB simple family (publication)

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